

APRIL/MAY 2023

**GOCH15A/DOCH15A — CHEMISTRY IN
AGRICULTURE**

Time : Three hours

Maximum : 75 marks

SECTION A — (10 × 2 = 20 marks)

Answer ALL questions.

1. What is the role of Potassium in plants?
2. Sketch the commercial preparation of Urea.
3. What are manures? Give an example.
4. Write short notes on blood meal manure.
5. What are organic fungicides? Give an example.
6. Write D.D.T with its structure.
7. Define the term Fungicides.
8. Write short notes on preservation of seeds.
9. Enlist the general classification of soils.
10. Write short notes on soil testing.

SECTION B — (5 × 5 = 25 marks)

Answer ALL questions.

11. (a) What are mixed fertilizers? Sketch the preparation and its composition.

Or

- (b) Illustrate the commercial preparation of triple superphosphate along with its special features.

12. (a) Discuss in detail about Oil cakes.

Or

- (b) Enumerate about handling and storage of farm yard manures.

13. (a) What are pesticides? How are they classified? Give examples.

Or

- (b) Discuss about organic and inorganic herbicides with respective examples.

14. (a) Explain the term Acaricides and Rodenticides.

Or

- (b) Write notes on Attractants and Repellants.

15. (a) Discuss about the soil minerals.

Or

- (b) Illustrate the factors affecting the soil temperature.

SECTION C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. Enumerate about secondary and micro nutrients. Explain their functioning in plants.

17. Discuss about organic manures and fish manures.

18. Discuss about Nicotine, pyrethrin, D.D.T and BHC.

19. Write briefly about the fungicides following;

- (a) Sulphur compounds

- (b) Copper compounds and

- (c) Bordeaux mixture.

20. Describe in detail about the soil acidity and soil testing.